

WHAT IS CLAIMED IS:

1. A liquid crystal display device configured to compare inputted image data and image data of a preceding frame and subject the inputted image data to data correction for improving response speed of liquid crystal based on a result of the comparison, comprising

a data driver,

wherein at least one of an output corresponding to a maximum tone and an output corresponding to a minimum tone in said data driver is used for only the image data that has undergone the data correction.

2. The liquid crystal display device according to claim 1,

wherein the output corresponding to the maximum tone and the output corresponding to the minimum tone are used only for the image data that has undergone the data correction.

3. The liquid crystal display device according to claim 1,

wherein tones that said data driver is capable of outputting from all outputs are displayed by arbitrarily combining all the outputs of said data driver except the output corresponding to the tone used only for the image data that has undergone the data correction.

4. The liquid crystal display device according to claim 3, further comprising

a table in which the tones that said data driver is capable of outputting are shown so as to be related to the combinations of the outputs of said data driver except the output corresponding to the tone used only for the image data that has undergone the data correction.

5. The liquid crystal display device according to claim 3, wherein an error diffusion method is applied to the combinations of the outputs of said data driver except the output corresponding to the tone used only for the image data that has undergone the data correction.

6. The liquid crystal display device according to claim 1, wherein said data driver is capable of outputting, in addition to outputs corresponding to all tones designatable by the image data, at least one of an output corresponding to a higher luminance than a luminance of the maximum tone and an output corresponding to a lower luminance than a luminance of the minimum tone.

7. The liquid crystal display device according to claim 6, wherein as at least one of the output corresponding to the higher luminance than the luminance of the maximum tone and the output corresponding to the lower luminance than the luminance of the minimum tone, a plurality of outputs corresponding to luminances different from each other are allowed to be outputted.

8. A data driver being capable of outputting, in addition to outputs corresponding to all tones designatable by inputted image data, at least one of an output corresponding to a higher luminance than a luminance of a maximum tone and an output corresponding to a lower luminance than a luminance of a minimum tone.

9. A liquid crystal display device configured to compare inputted image data and image data of a preceding frame and subject the inputted image data to data correction for improving response speed of liquid crystal based on a result of the comparison, comprising

a processing part configured to process the image data to increase a luminance level,

wherein in said processing part, processing of the image data that has undergone the data correction is prohibited.

10. A liquid crystal display device configured to compare inputted image data and image data of a preceding frame and subject the inputted image data to data correction for improving response speed of liquid crystal based on a result of the comparison, comprising

a backlight that is impulse-driven,

wherein a correction amount in the data correction is changed by a unit of at least one horizontal line or more.

11. A liquid crystal display device, configured to compare inputted image data and image data of a preceding frame and subject the inputted image data to data correction for improving response speed of liquid crystal based on a result of the comparison, a correction amount in the data correction being changed according to a temperature, comprising

a temperature measuring part,

wherein a temperature measured in said temperature measuring part is corrected by a temperature correction amount that varies with time, during a period from a power supply time to a temperature stable time.

12. A driving method of a liquid crystal display device, comprising:

a first step of comparing inputted image data and image data of a preceding frame; and

a second step of subjecting the inputted image data to data correction for improving response speed of liquid crystal based on a result of the comparison,

wherein at least one of an output corresponding to a maximum tone and an output corresponding to a minimum tone in a data driver is used only for the image data that has undergone the data correction.

13. The driving method of the liquid crystal display device according to claim 12,

wherein the output corresponding to the maximum tone and the output corresponding to the minimum tone

are used only for the image data that has undergone the data correction.

14. The driving method of the liquid crystal display device according to claim 12, wherein tones that the data driver is capable of outputting from all outputs are displayed by arbitrarily combining all the outputs of the data driver except the output corresponding to the tone used only for the image data that has undergone the data correction.